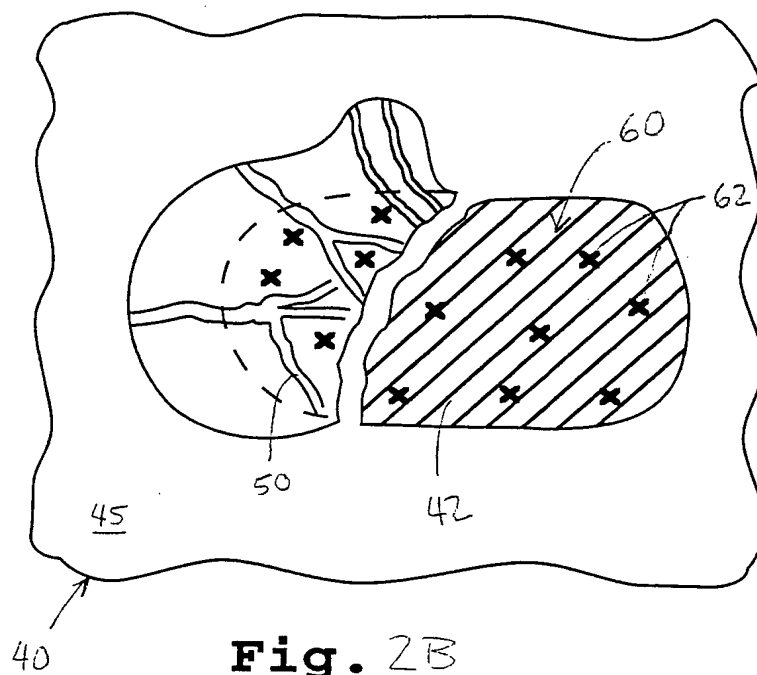


A schematic diagram of a heart (20) with a catheter system (2) for monitoring blood flow. The catheter system includes a catheter (22) with a distal portion (24) positioned in the right ventricle (30) and a proximal portion (28) positioned in the right atrium (34). A catheter (32) is also shown in the right atrium (34). The catheter (22) has a proximal portion (38) and a distal portion (24). The catheter (32) has a proximal portion (38) and a distal portion (24). The catheter (22) has a proximal portion (38) and a distal portion (24). The catheter (32) has a proximal portion (38) and a distal portion (24).

Fig. 1

Fig. 2A is a cross-sectional diagram of a layered material. It shows a central region 60 containing several particles 62, represented by 'x' marks. A hatched, elongated region 56 is located within the central region 60. The diagram is bounded by layers 40, 42, 44, 46, and 48. A dashed line 54 outlines the central region 60. A wavy line 50 is shown at the top of the central region 60. A vertical dimension line 2B is shown on the left and right sides. A label 40 points to the bottom layer, and a label 42 points to the right side of the central region 60. A label 44 points to the bottom layer, and a label 46 points to the top layer. A label 48 points to the top layer, and a label 50 points to the wavy line. A label 54 points to the dashed line, and a label 56 points to the hatched region. A label 58 points to the right side of the central region 60. A label 62 points to one of the particles 62.



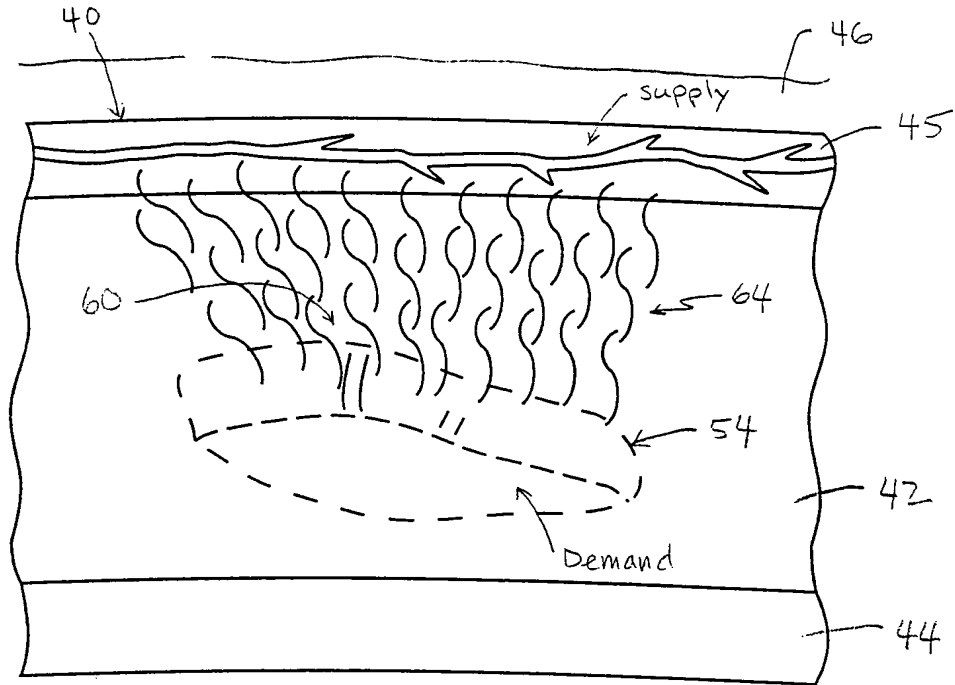


Fig. 3A

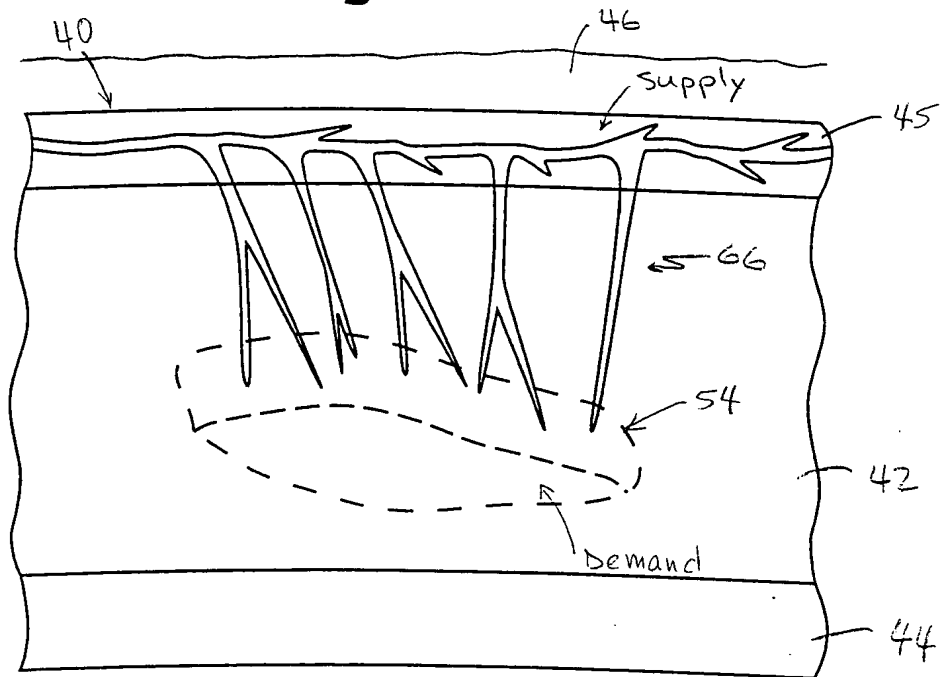


Fig. 3B

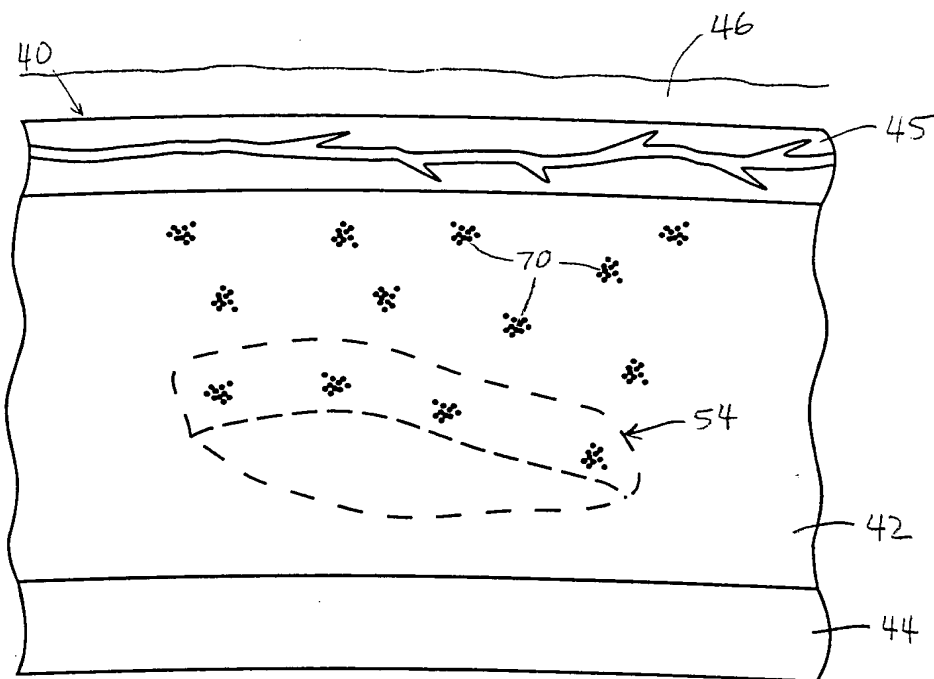


Fig. 4A

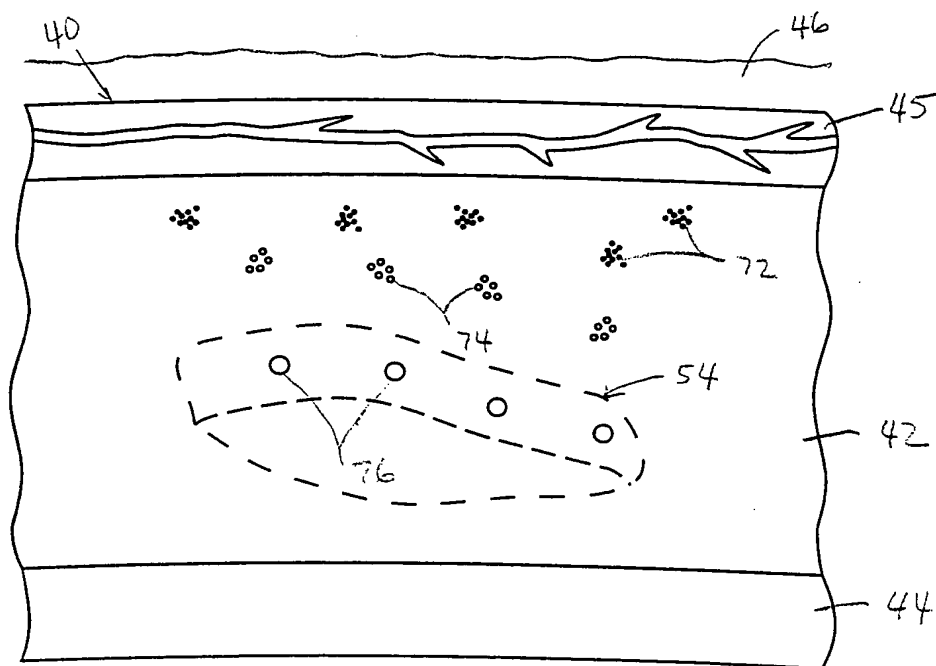


Fig. 4B

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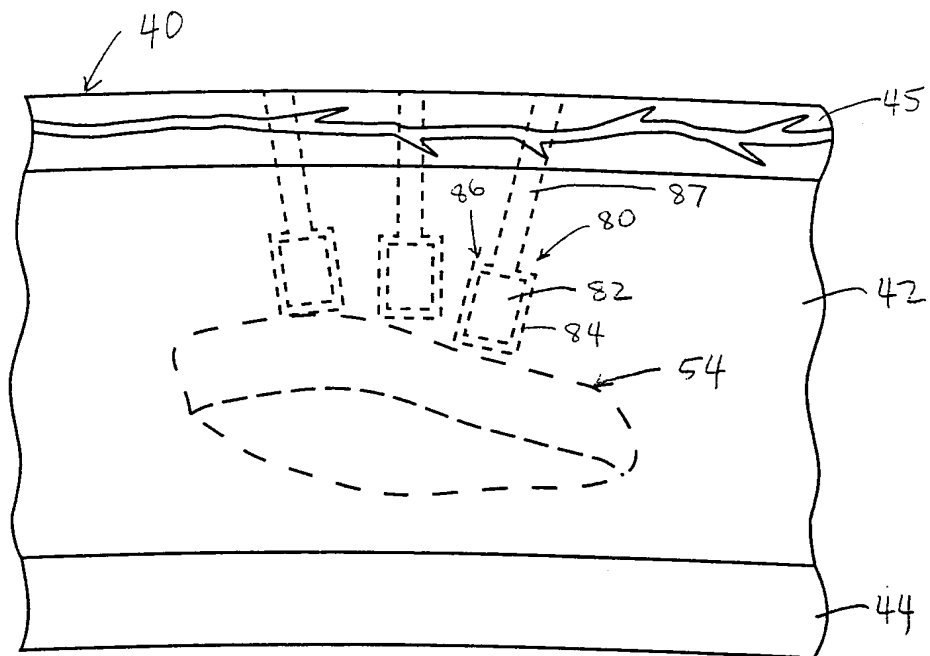


Fig. 5A

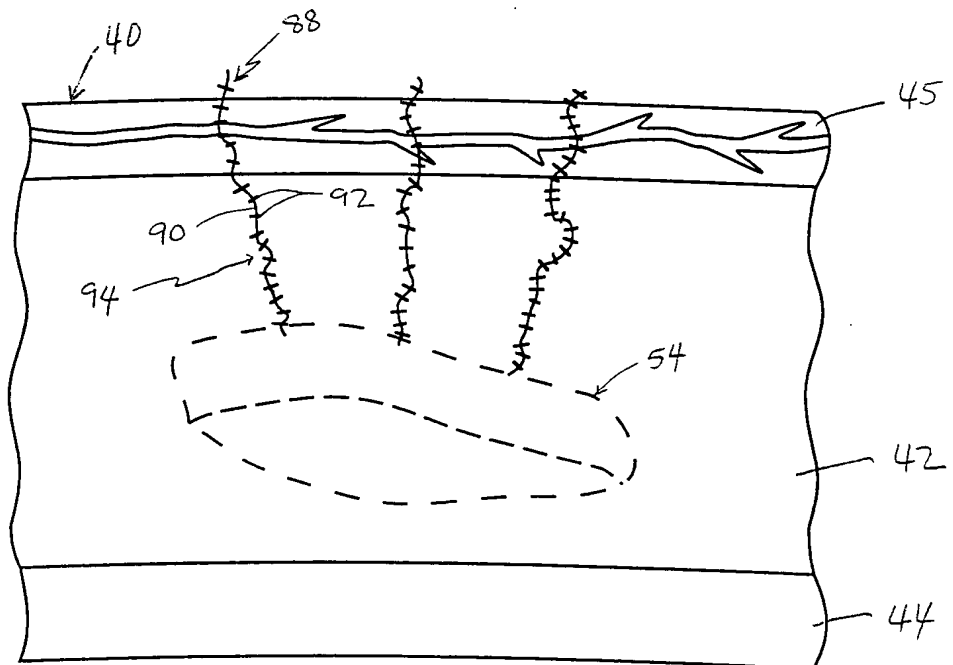


Fig. 5B

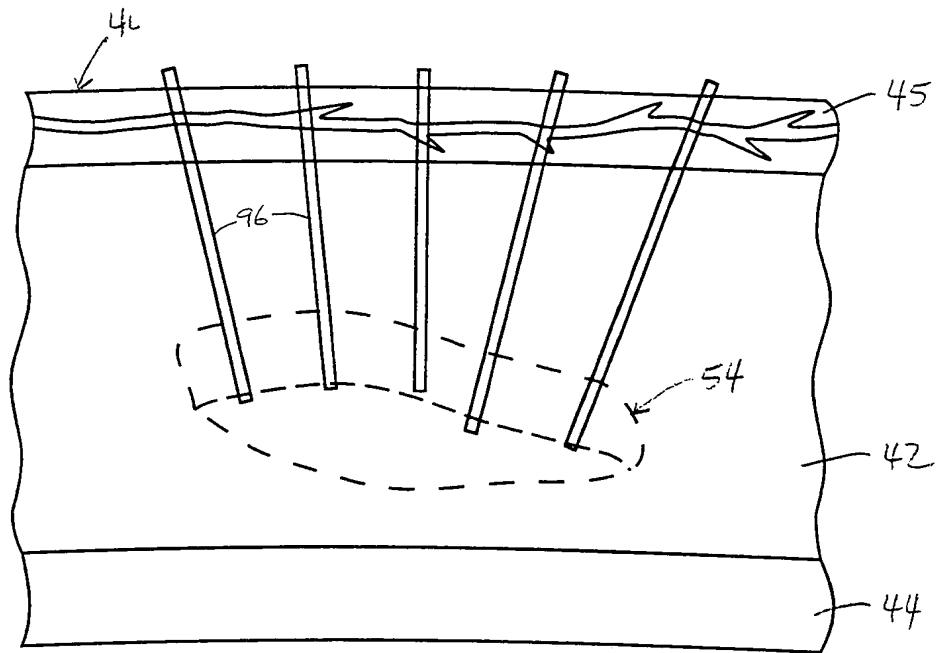


Fig. 5C

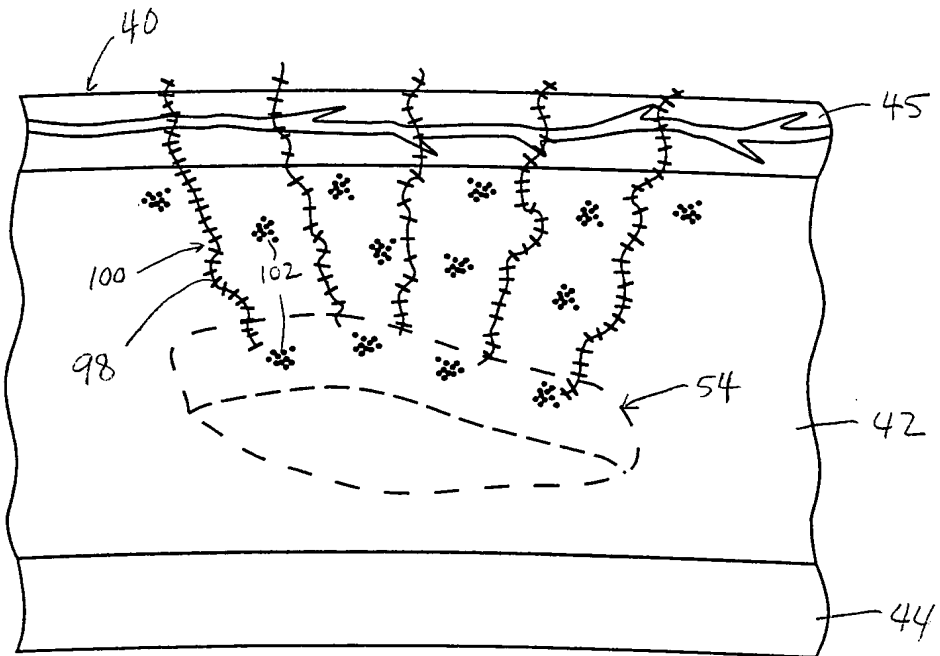
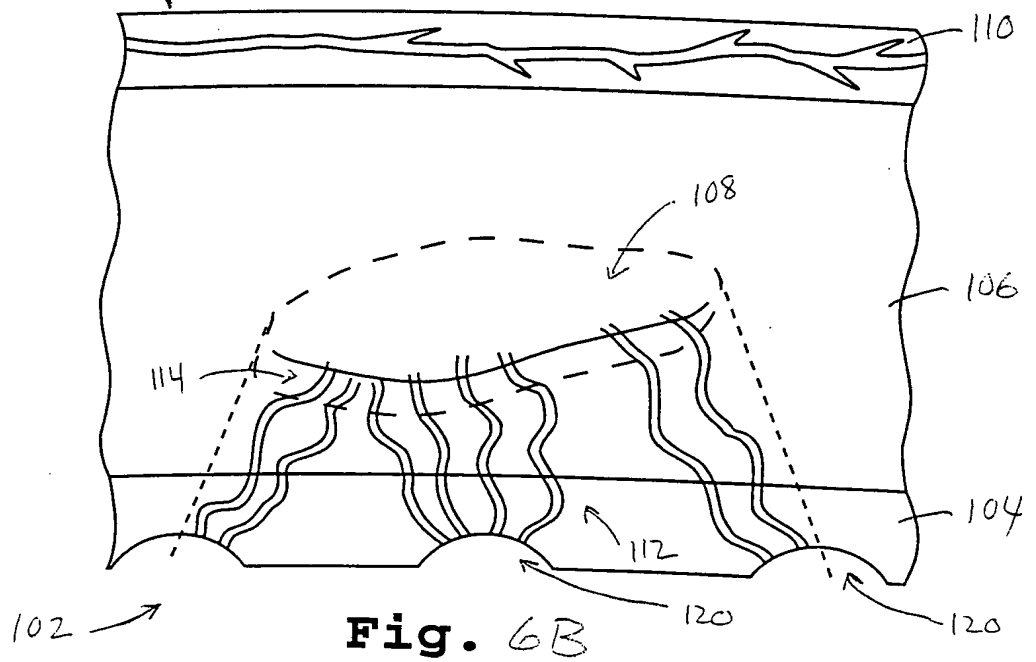
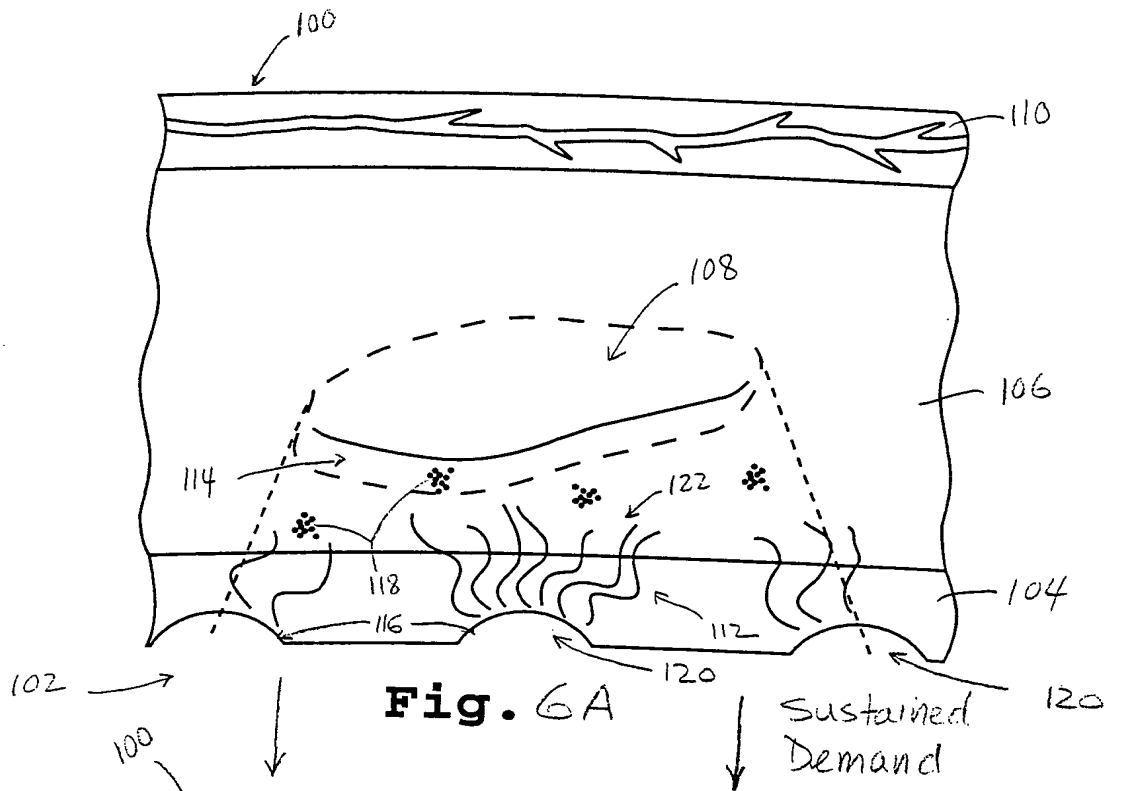


Fig. 5D

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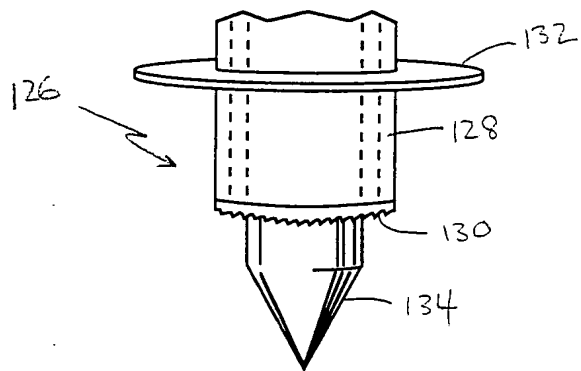


Fig. 7A

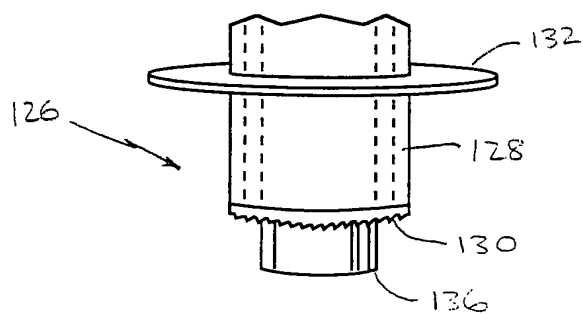


Fig. 7B

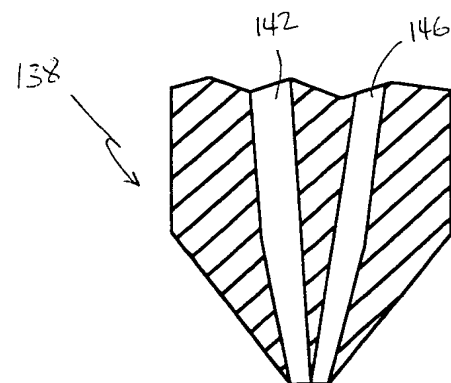


Fig. 8A

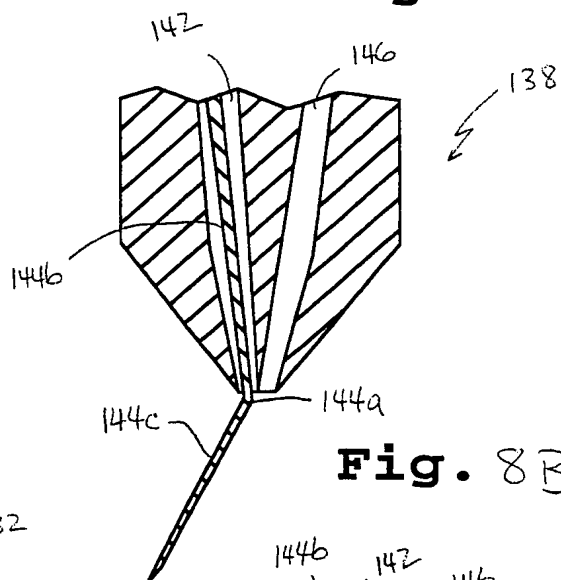


Fig. 8B

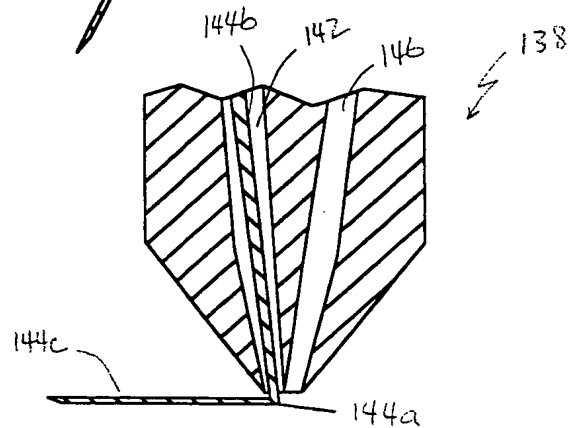


Fig. 8c

A schematic diagram of a surgical instrument. The instrument consists of a handle (150) and a conical tip (148). The tip is shown in a cross-sectional view, revealing a hollow interior. The tip is surrounded by a dashed oval (152) and a solid oval (154). The handle is shown in a cross-sectional view, revealing a hollow interior.

A schematic cross-sectional diagram of a layered material. The material consists of several horizontal layers. A vertical pin or probe is shown inserted into the top layer, labeled 150. Below the pin, a horizontal line is labeled 156. Further down, a horizontal line is labeled 158. A dashed line, labeled 160, indicates a boundary or interface. The right side of the diagram is labeled 152, and the bottom layer is labeled 154.

Fig. 9B

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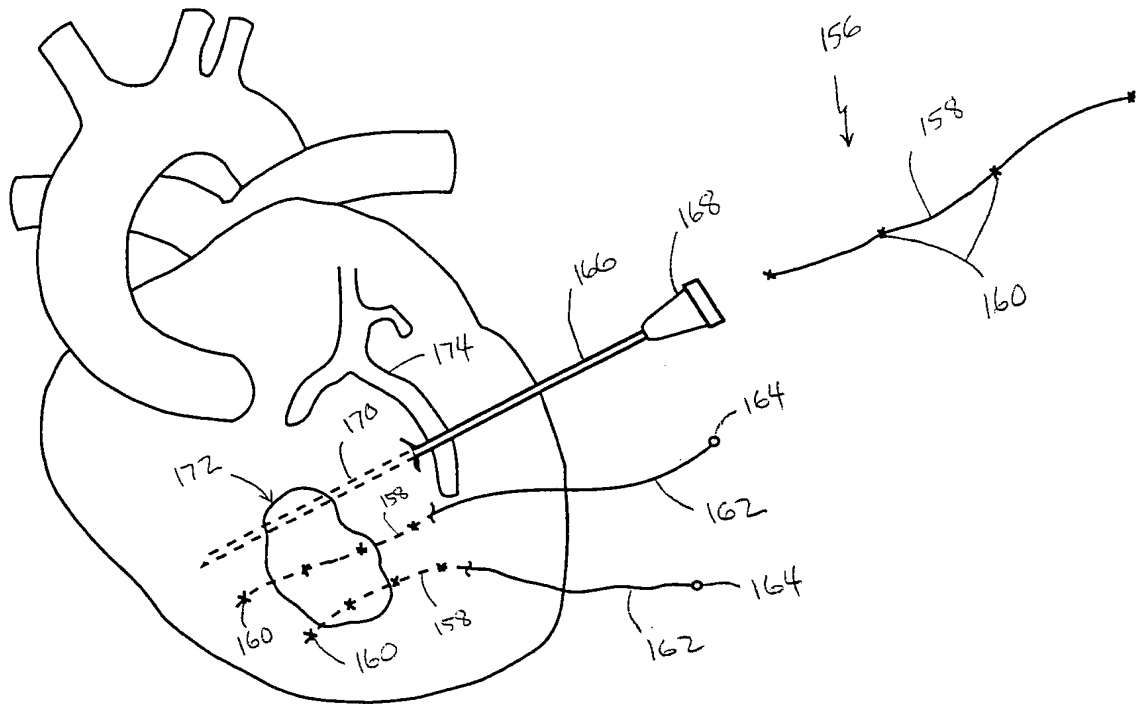


Fig. 10

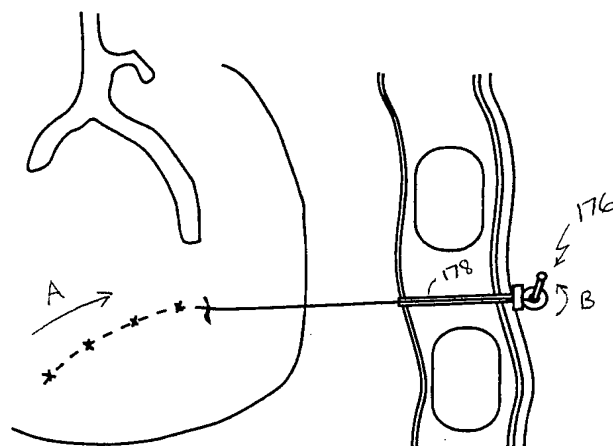


Fig. 11

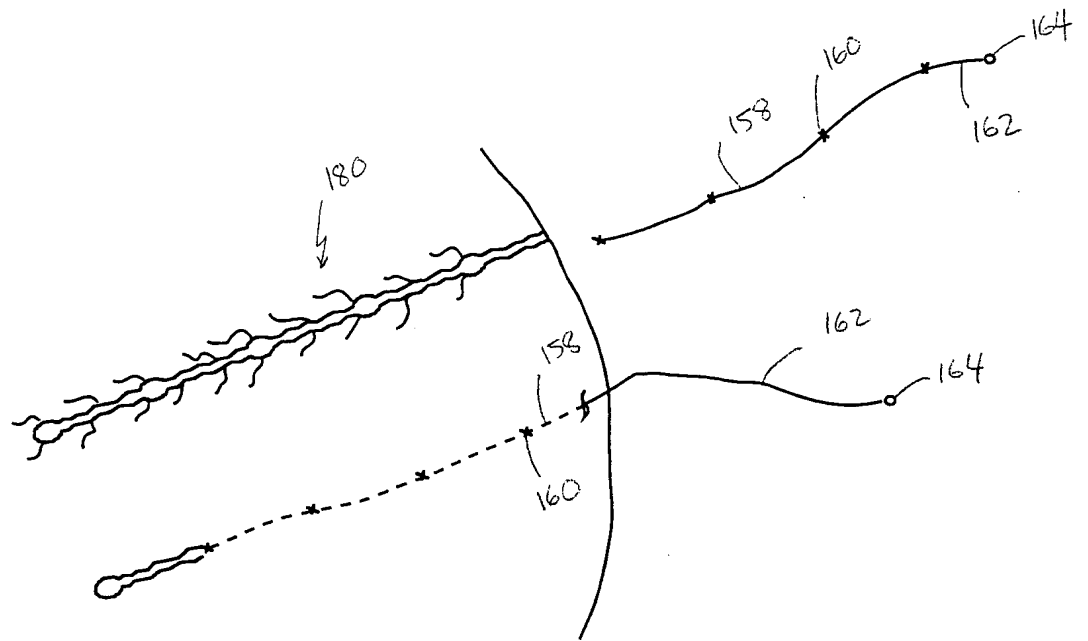


Fig. 12

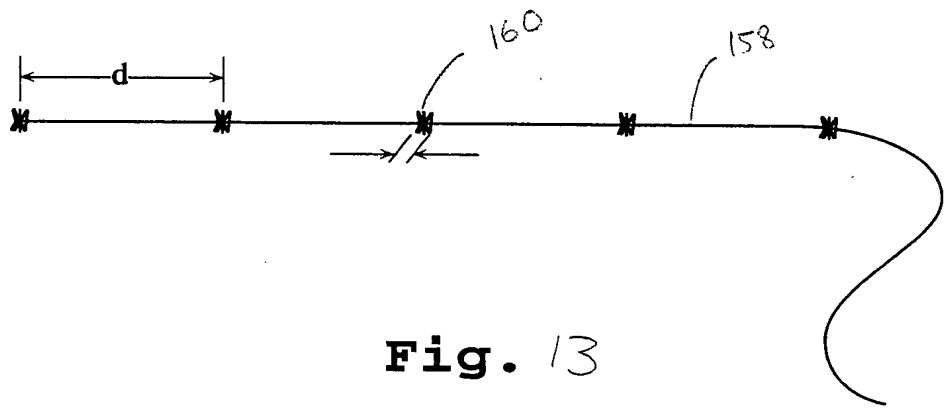


Fig. 13

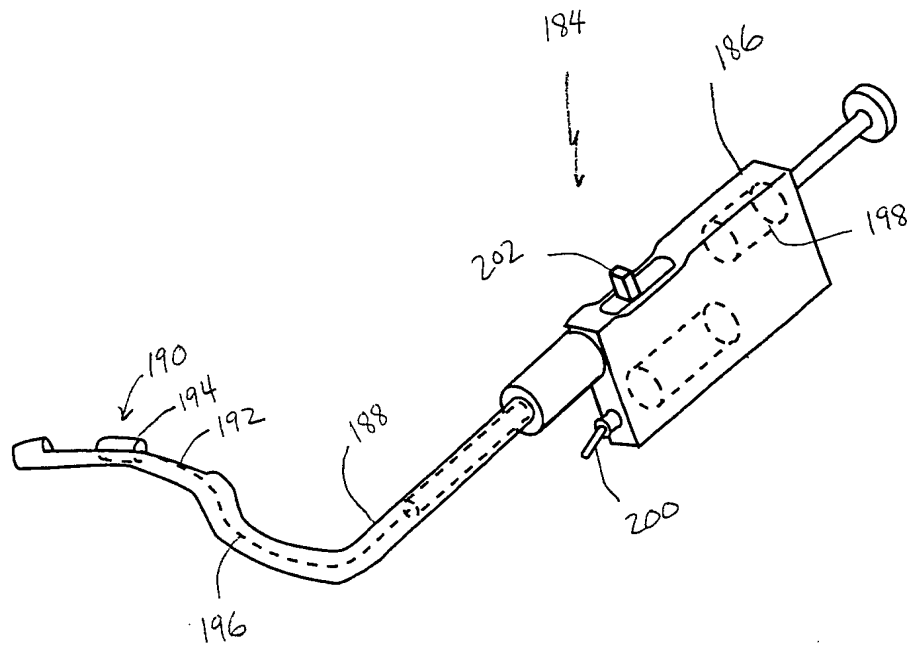


Fig. 14

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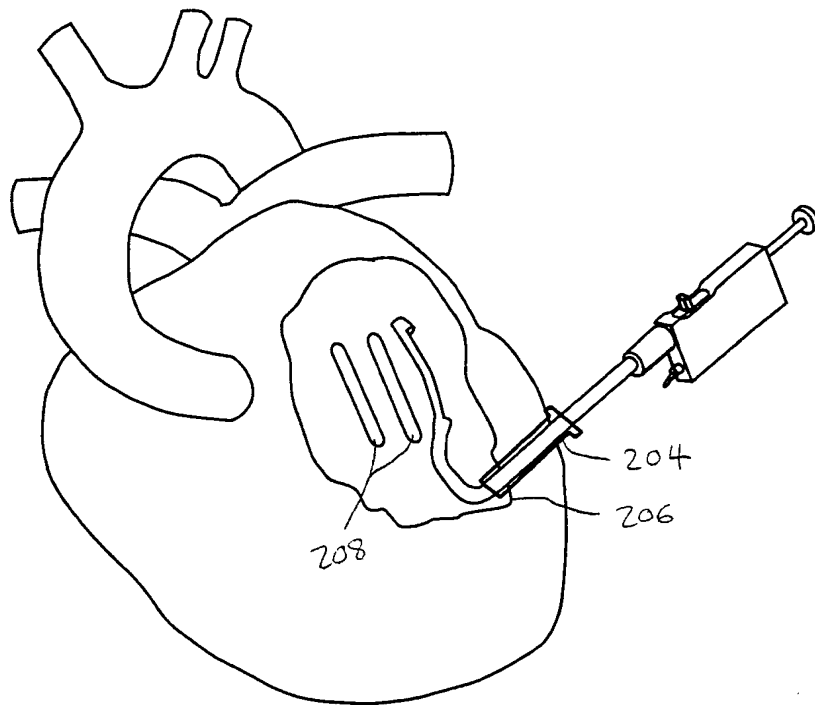


Fig. 15

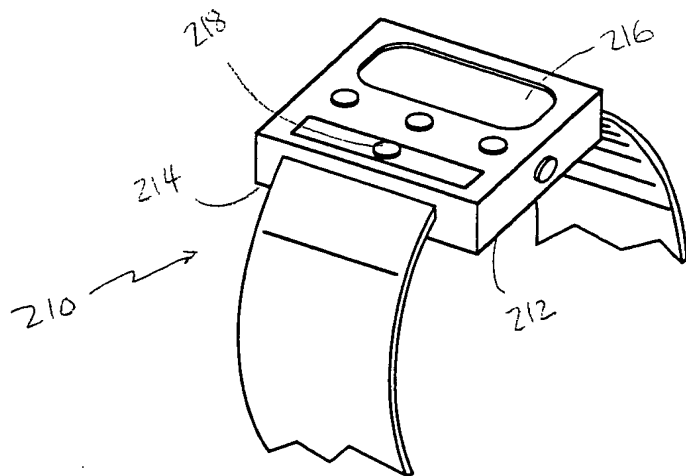


Fig. 16

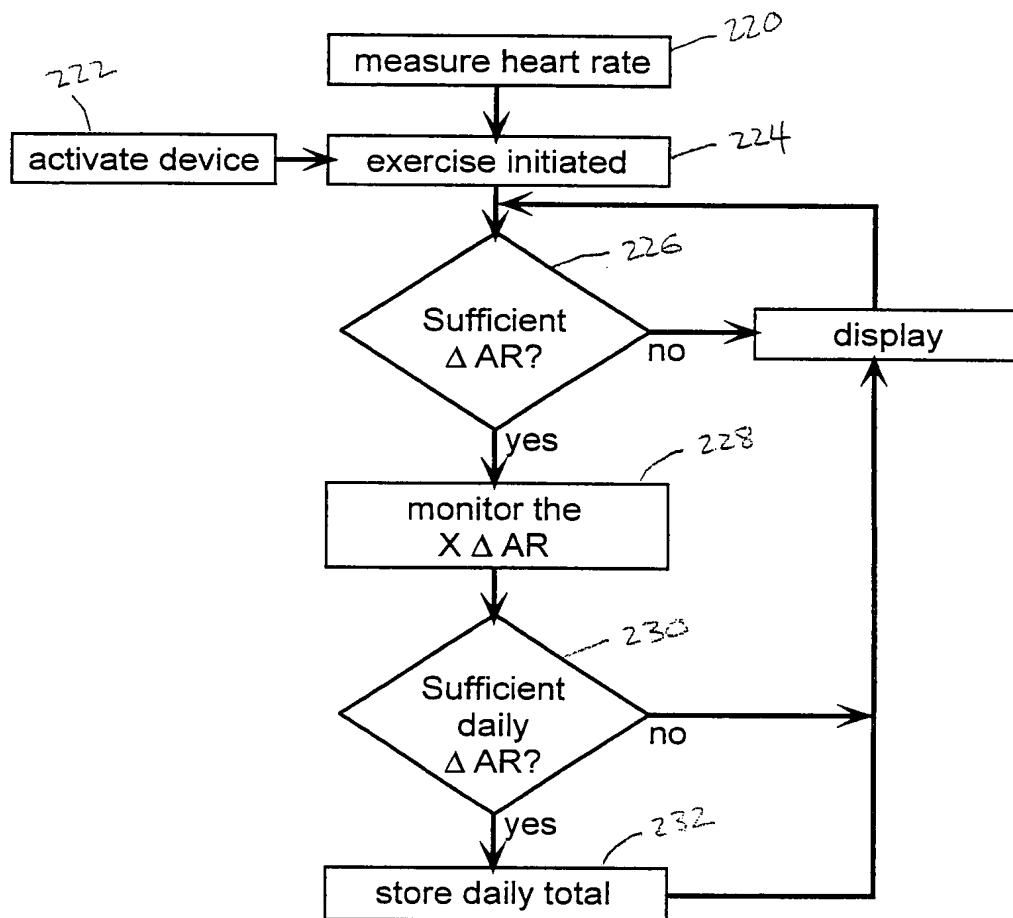


Fig. 17

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